GB

DSR 1004 CW VFD
DSR 1004 CW CI VFD

User's Manual

Digital Satellite Receiver

Cryptoworks embedded

SCHWAIGER®

Guarantee / Safety and installation information

Guarantee
The guarantee period begins with the purchase of the product. Please confirm this with your proof of purchase (receipt, invoice, delivery receipt etc.). Please keep these documents in a safe place. Our guarantee is based on our guarantee conditions in force at the time of purchase. In the case of a necessary repair, take or send in the unit to your specialist dealer.

The unit carries the CE mark and thus conforms to the fundamental requirements of the European directives 2004/108 EC for EMC and 2006/95 EC for LVD.

Disposal information for packaging
Packaging materials can be recycled and should always be submitted for recycling.
Packaging materials such as plastic bags do not belong in the hands of children.

Safety and installation information
All of our products at the time of purchase conform to the currently applicable safety regulations and are, when used as intended, completely safe! Please heed the following information to avoid any potential dangers, damage or faults:

Location
Place the unit on a solid, secure and horizontal surface and make sure that it is well ventilated. Do not place the unit on beds, sofas, soft carpets or similar surfaces as this will block the ventilation slots on the base of the unit and interrupt the necessary air circulation. Make sure that the ventilation slots on the top of the unit are not covered up e.g. by newspapers, tablecloths or curtains. This could possibly cause the unit to catch fire.
As the unit generates heat and has rubber feet, this can lead to discolouration on the surface of furniture. If necessary, place the unit on a suitable base.
The heat generated when the unit is in operation must be dissipated by adequate air circulation, so the unit must not be covered up or situated in a closed cupboard.
You should also bear this in mind if the unit is supplied with an IR mouse (optional) and is situated, for example, behind the television set.
Make sure there is at least 10 cm of clearance around the unit. Radiators or other heat sources in the vicinity of the unit can lead to malfunctions or damage the unit. You must not place any open fire sources, such as burning candles, on top of the unit.
The unit must not be located in rooms with a high level of humidity e.g. kitchens or saunas, as the condensation water may damage the unit.
The unit is designed for use in dry, temperate environments and must not be exposed to dripping or splashing water.
If the unit is moved from a cold to a warm place, condensation may form inside the unit. Therefore leave the unit switched off for a few hours.

Mains connection
WARNING:
For units that are supplied with a mains adaptor, only use the original mains adaptor supplied with the unit! The mains adaptor / mains plug must only be connected to a 230 V~/50 Hz mains supply The mains adaptor / mains plug must be accessible at all times so that the unit can be unplugged from the mains outlet. Only connect the mains adaptor / mains plug to an earthed power outlet!

Guarantee / Safety and installation information

The mains adaptor / mains plug must only be plugged in once installation has been completed according to the instructions. The unit must not be used if the mains adaptor / mains plug is faulty or the unit is damaged in any other way.

Avoid exposing the unit to water or moisture. Do not use the unit in the vicinity of bathtubs, swimming pools or splashing water.

Do not place any water holding containers, e.g. vases of flowers on top of the unit. These might fall over and the liquid may cause serious damage or lead to a risk of electric shock.
Should any liquids or foreign matter accidentally get into the unit, unplug the mains adaptor / mains plug from the power outlet immediately. Have the unit inspected by a qualified engineer before using it again.
Under no circumstances should you open the unit or the mains adaptor – this must only by carried out by a qualified engineer.
Do not let unsupervised children tamper with the unit. Do not let foreign objects, e.g. needles, coins etc fall into the interior of the unit.
Packaging materials such as plastic bags do not belong in the hands of children.
Do not touch the contacts on the back of the unit with your fingers or metal objects. This could cause a short circuit.
The unit must not be set up in the vicinity of appliances that generate strong magnetic fields (e.g. motors, loudspeakers, transformers). Use a suitable, easily accessible power outlet and avoid using multiple sockets!

Before cleaning the unit, it must be unplugged from the mains outlet. To clean the unit, use a soft dry cloth. Never spray cleaning agents directly onto the unit. Do not use any cleaning solutions that might damage the surface of the unit.

Do not handle the mains adaptor when your hands are wet – risk of electric shock! In the case of any faults or smoke and odours coming from the unit, unplug the mains adaptor / mains plug from the power outlet immediately!

You must not use the unit if water or foreign objects get into the inside of the unit or if the unit or mains adaptor has been damaged. The unit must first be inspected or repaired by a qualified engineer (technical customer service).

The receiver must be unplugged from the power outlet before connecting the antenna, otherwise there is a risk of damaging the antenna.

Before connecting the television to the receiver, the television must be unplugged from the mains outlet , otherwise there is a risk of damaging the television.

The antenna cable must be connected to the system earth of the satellite antenna. The earthing of the system must be carried out according to national safety regulations.

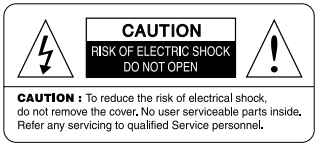
In the case of an impending storm, unplug the mains adaptor and antenna plug.

If the unit will not be in use for an extended period of time, e.g. before a long holiday, unplug the mains adaptor from the power outlet. Also remove the batteries from the remote control, as they may leak and damage the remote control. Normal batteries must not be charged, heated or thrown into an open fire (risk of explosion!).
Do not throw used batteries in the household refuse. Batteries are hazardous waste and must be disposed of accordingly.

General Safety

Warning

Always follow these instructions to avoid the risk of injury to yourself or damage to your equipment.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : To reduce the risk of electrical shock,
do not remove the cover. No user serviceable parts inside.
Refer any servicing to qualified Service personnel.

Unplug the receiver from the AC power outlet before cleaning.
Use only a damp cloth for cleaning the exterior of the receiver.

Do not use accessories or attachments not recommended by the receiver manufacturer as they may cause problems to the equipment and will void the warranty.

Do not place the receiver on an unstable cart, stand, tripod, bracket, or table.
The receiver may fall, causing serious personal injury and damage to the receiver.

Do not block or cover the slot opening in the receiver.
These are provided for ventilation and protection from overheating.
Never place the receiver near or over a radiator or any heat source.
Do not place the receiver in an enclosure such as a cabinet without proper ventilation

Do not stack the receiver on top of or below other electronic devices.

The apparatus shall not be exposed to dripping or splashing and with no object filled with liquids, such as vases, shall be placed on the apparatus.

Operate the receiver using only the type of power source indicated on the marking label.
Unplug the receiver power cord by gripping the power plug, not the cord.

General Safety

Route power supply cord so that are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to the cords that plugs in the convenience receptacles, and the point where they exit from the unit.
Use an outlet that contains surge suppression or ground fault protection.
For added protection during a lightning storm, or when the receiver is left unattached and unused for long periods of time, unplug it from the wall outlet and disconnect the lines between the receiver and the antenna. This will provide some protection against electrical damage caused by lightning or power line surges.

Servicing

Do not attempt to service the receiver yourself, as opening or removing covers may expose you to dangerous voltage, and will void warranty.

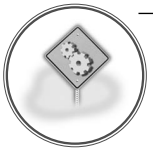
Refer all servicing to authorized service personnel.

DIGITAL SATELLITE RECEIVER
OWNER'S MANUAL
SIMPLE & SPEEDY

OPERATION HANDBOOK

Before operation,
Please read the entire manual thoroughly
and retain it for future reference.

ENGLISH



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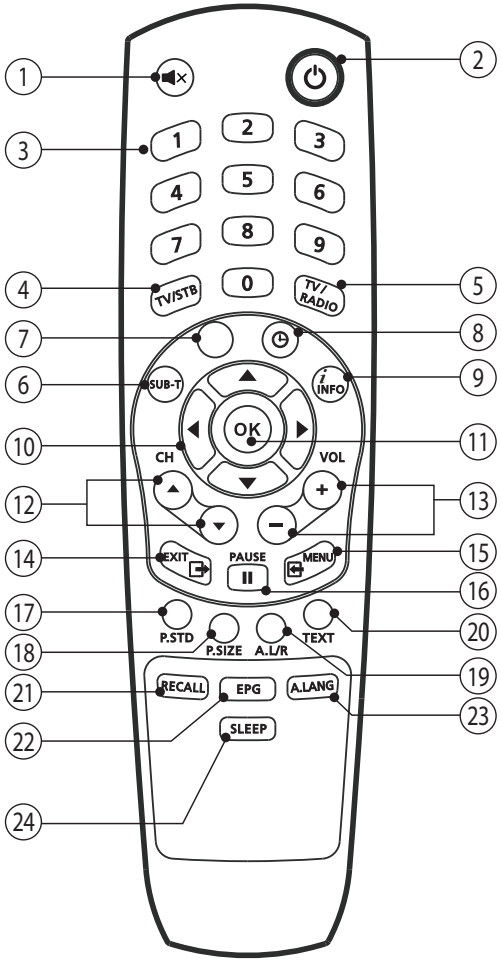
Remote Control Unit



Note 1 When inserting batteries, make sure that the polarity (+/–) is correct.

2 The design of the Remote Control Unit may be changed without any notice in advance.

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Remote Control Unit

1	**MUTE**	To enable or disable audio.
2	**STAND BY**	To switch between operation and stand by mode.
3	**NUMERIC BUTTONS**	To select the channel and enter the channel edit and PIN code.
4	**TV/STB**	To switch between TV and STB receive mode.
5	**TV/RADIO**	To switch between TV and Radio.
6	**SUBTITLE(RED)**	To enable or disable subtitle or change the channel list mode.
7	**GREEN**	To see the current information banner guide or the satellite list.
8	**YELLOW**	To display the reserved list.
9	**INFO(BLUE)**	To display the information box on the screen.
10	**LEFT/RIGHT**	To move left or right on the menu. To increase or decrease the volume.
	UP/DOWN	To move up or down on the menu.
11	**OK**	To confirm your choice.
12	**CHANNEL UP/DOWN**	To change channel up and down.
13	**VOLUME UP/DOWN**	To increase or decrease the volume.
14	**EXIT**	To return the normal viewing mode from a menu.
15	**MENU**	To display the Main Menu on the screen or return to the previous menu.
16	**PAUSE**	To pause or play video.
17	**P.STD**	To change picture standard. (Option)
18	**P.SIZE**	To change screen size.
19	**A.L/R**	To select the sound mode.(Mono, Left, Right, Stereo)
20	**TEXT**	To see the teletext by OSD. (Option)
21	**RECALL**	To return to the previous channel.
22	**EPG**	To display the TV/RADIO program guide.
23	**A/LANG**	To select the audio language.
24	**SLEEP**	To select a present time interval for automatic shut off.

Front Panel

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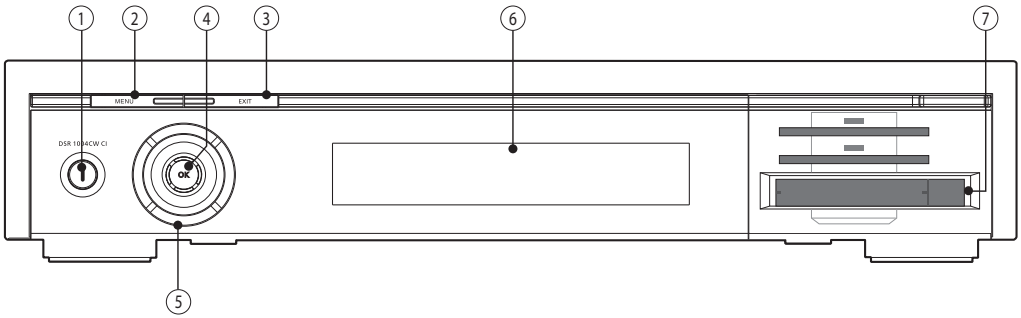

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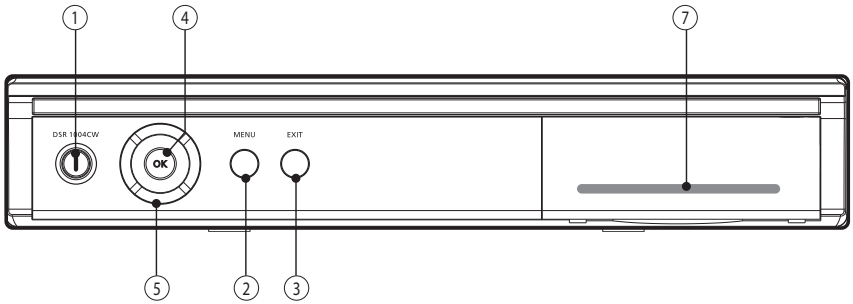

1. POWER Switch the receiver power “ON” or “OFF”.

2. MENU To see main menu.

3. EXIT (Schließen) Exit from parameter and cancel selected function.

4. OK Select a program, a highlighted line or parameter value.

5. CH ▲ or ▼(Program ▲ or ▼) Channel Up/Down or select item of sub-menu.

VOL - / + (Program ◄ or ►) Volume Up/Down or select item of sub-menu.

6. VFD To display the current state, such as channel, time and display.

7. CAM Slots (Depending on model)

2 Slots for Common Interface CAM (VIACCESS, IRDETO, NAGRAVISION, CRYPTOWORKS, CONAX) with SmartCard.

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Rear Panel

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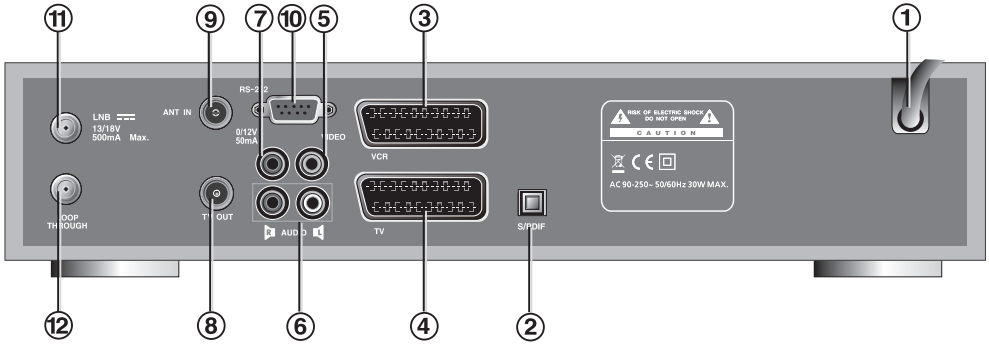

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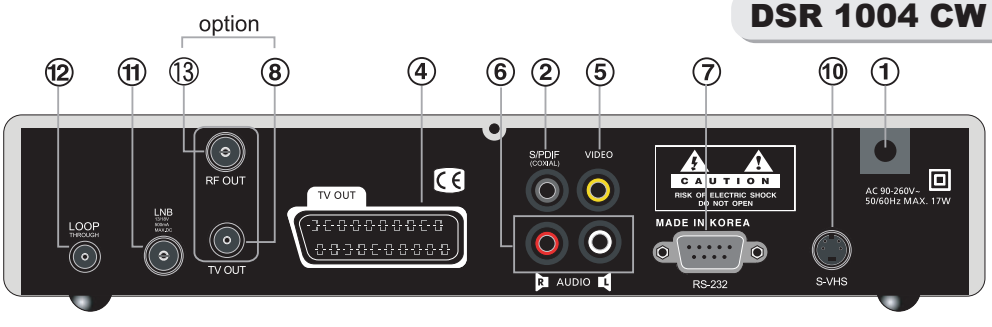

1. POWER SUPPLY	90 ~ 250V AC, 50/60Hz.
2. S/PDIF	Output for connection to a digital amplifier.
3. SCART FOR VCR	Connect this port to the VCR via SCART cable.
4. SCART FOR TV	Connect this port to the TV via SCART cable.
5. VIDEO	Video connection port to the TV or other equipment.
6. AUDIO	Audio connection port to the TV or other equipment.
7. 0/12V	To connect 12V to an external 0/12V switch. (Optional : coaxial SPDIF or N.C)
8. TV OUT	To connect a TV via a coaxial cable.
9. ANT IN	To connect to television antenna input.
10. RS-232	To connect to a personal computer for software upgrade.
11. LNB	To connect to a satellite antenna and cable jacks.
12. LOOP THROUGH	Used to connect a RF signal from the STB to either the RF input jack on your television or to the STB.
13.RF OUT	Used to connect a RF signal from te STB to either the RF input jack on your television or to the STB(RF Loop in).

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Connecting Your Equipment

How to connect your STB to various systems

There are several ways of connecting the STB to your TV, VCR and/or Hi-Fi SYSTEM. Consult your local supplier for assistance in setting-up your system that is best suited to your requirements.

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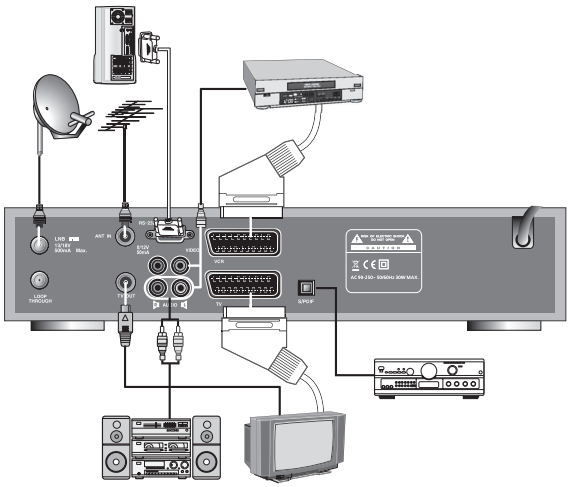

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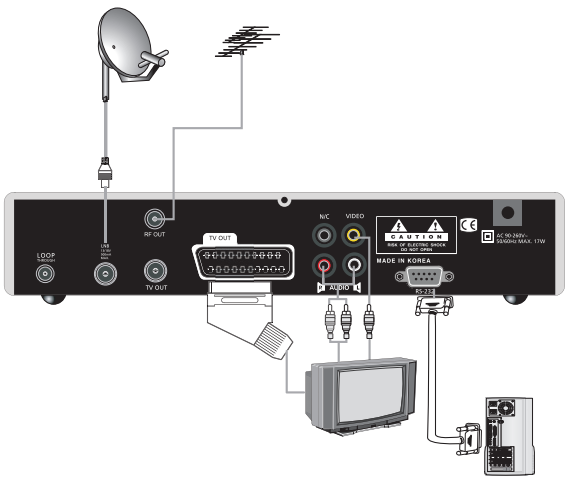


Connecting Your Equipment

1. Connect STB to a TV set

Connect your STB to a TV set with SCART, if your TV set is equipped for it.
Alternatively you can use A/V, TV out (UHF) or S/Video jacks.

2. Connect STB to a VCR

Connect the SCART jack from the VCR to the back of your STB.
Alternatively you can use A/V, TV out (UHF) or S/Video jacks.

3. Connect STB to a Digital Audio System

If you have a DAC with S/PDIF coaxial cable input, you can connect the STB with it to enjoy higher quality sound. Connect S/PDIF coaxial cable to a digital amplifier.

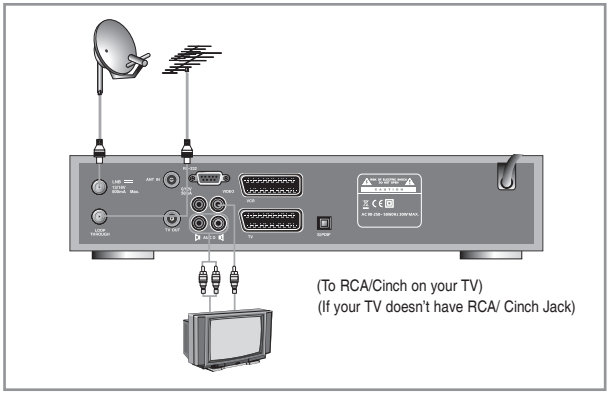
4. Loop Through

If you have another analogue or digital STB and you wish to use the same LNB then you can connect it via the loop through. Connect one end of the coaxial cable to the Loop Through on the STB and connect the other end to the LNB IN on your second STB.

Connecting Your Equipment

TV with Terrestrial Antenna

1. Connect one end of RCA/Cinch cable to the RCA/Cinch jack on the back of the STB and the other end to a RCA/Cinch jack on your TV. If your TV doesn't have a RCA/Cinch jack, connect one end of RF cable to the TV OUT on the back of the STB and the other end to a RF input jack on your TV.
2. Connect one end of RF cable to the ANT IN on the back of the STB and the other end to a terrestrial antenna connection or the jack for the public antenna on the wall.



3. Finally connect the coaxial cable from the LNB to the LNB IN jack on back of the STB.

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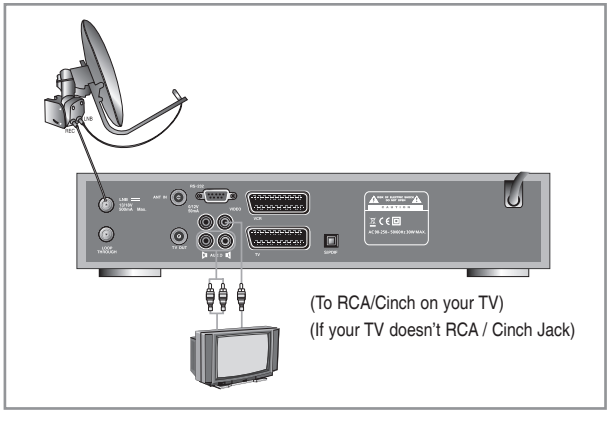
Connecting Your Equipment

TV with Motorized System (DiSEqC 1.2)

1. Connect one end of RCA/Cinch cable to the RCA/Cinch jack on the back of the STB and the other end to a RCA/Cinch jack on your TV. If your TV doesn't have a RCA/Cinch jack, connect one end of RF cable to the TV OUT on the back of the STB and the other end to a RF input jack on your TV.

2. Connect one end of your coaxial cable to the LNB IN connector on the STB and the other end to the REC or Receiver connector on the DiSEqC 1.2 motor.



3. Connect the coaxial cable from the LNB to the LNB connector on the DiSEqC 1.2 motor.

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Connecting Your Equipment

Reference

1. DiSEqC 1.0 Connection

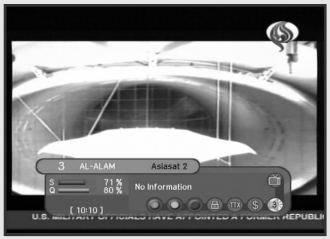
All our receivers are designed to be DiSEqC 1.0 and DiSEqC 1.2 compatible.
This allows multiple antennas to be connected to the STB at the same time.
If you have two or more fixed antennas or LNBs then we recommend you use a DiSEqC 1.0 switch.
Connect the coaxial cable from the first LNB to the LNB 1 or LNB A input connector of the DiSEqC switch.
Do the same for any other LNBs that you have.
Connect one end of a coaxial cable to the RF output connector of the DiSEqC switch,
connect the other end to the LNB IN socket on the STB.

2. DiSEqC 1.2/ USALS Connection

To the digital receiver, you can connect either a single satellite antenna directly or LNB of multi-feed equipment.
When installing the USALS please consult and receive assistance from an installation specialist,
or ensure that the 0-degree angle of the motor is facing due south when installing,
for proper operation.

Basic Operation

Basic Function



1. Program Information

After the television channels have been programmed, you will see the information box each time you change the channels.

1. Every time you change channels you will receive program information for a few seconds. (In the "**Banner Time**" menu you can select how long this information will be shown.)
2. You may change channel lists with the **UP** or **DOWN** button.
   You can get "**Channel Banner**" on the bottom of the screen.
3. When you press the **COLOR** button, you can use banner as a simple channel operation. In this case, you can get a simple EPG on right view.

2. Favorite Banner

1. During "**Channel Banner**" is appearing, when you press **SUB-T(RED)** Button, you can get "**Favorite Banner**" and "**Lock Banner**".
2. If you already made your favorite channel in "**Channel Control**" menu, you can get favorite channel on this view.
3. The banner will disappeared automatically after banner-time out.

3. Now-Information Banner

1. During "**Channel Banner**" is appearing, when you press **GREEN** Button, you can get "**Now-Information Banner**".
2. Using "**Now-Information Banner**", you can get a simple EPG of "**Now-Information**".

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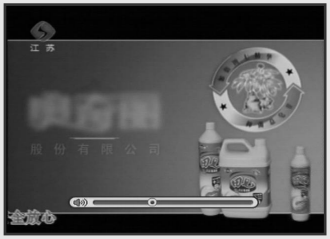
Basic Function

4. Next-Information Banner

1. During "**Channel Banner**" is appearing, when you press **YELLOW** Button, you can get "**Next-Information Banner**"
2. Using "**Next-Information Banner**", you can get a simple EPG of "**Next-Information**".

5. Channel-Information Banner

1. During "**Channel Banner**" is appearing, when you press **INFO(BLUE)** Button, you can get "**Channel-Information Banner**".
2. Using "**Channel-Information Banner**", you can get a detailed channel listing information.



6. Volume Control/Mute

1. To control audio volume, press **Volume** ⊕ / **Volume** ⊖ buttons.
2. Volume control bar will be appeared in bottom of the TV screen
3. After time-out in 1 second, volume control bar will disappear.
   To temporarily stop the volume, press the **MUTE** button.
   To cancel mute, press the **MUTE** button again or press the **Volume** ⊕ / **Volume** ⊖ buttons.

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Basic Function

7. Teletext / Subtitle

1. Press the **RED** button, popup window will be displayed on the screen.
2. Select the off, then subtitle function is off.
3. Select the Subtitle, then you can see the Subtitle language.
4. Select the Teletext, then you can see the Teletext language.

8. Timer

The user can reserve a desired program at a desired time by using the **Timer** function.

1. Once, Daily, Weekly Reservation.
   - ♦ Use the **UP/DOWN**(▲▼), **LEFT/RIGHT**(◀ / ▶) buttons in the Timer Setting screen to select the date and time.
   - ♦ Press the **OK**(OK) button to save the selected time on the Disk icon. The program will record at each and every selected time.

   Once : once
   Daily : daily
   Weekly : weekly
   Off : off

2. Reservation from EPG (Option).
   - ♦ Selects the desired program to be reserved from the EPG screen. Pressing the **YELLOW** button will open the **Timer** Window.

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Basic Function

9. Simple Channel List

1. When you press **OK**(OK) button during receiving service stream, you can get "**Channel List**" view.
2. Using **UP/DOWN**(▲▼) buttons in "**Channel List**" view, you can choose another channel.
3. After moving highlight on a channel, then press **OK**(OK) button.
4. Press **RED** button to change channel listing.
5. To get the channel sort list, press the **GREEN** button.
   Pop up window will be displayed on the screen.
6. Select the sort list you want with **UP/DOWN**(▲▼) buttons and then press **OK**(OK) button to get it.

10. Soundtrack

1. When you want to change the Audio Language of current channel, press the **A.LANG** button on the remote control.
   The on-screen menu is displayed on the left side of the screen.
2. Use **UP/DOWN**(▲▼) buttons to choose the audio you want.
3. To cancel or exit, press the **A.LANG** button again.

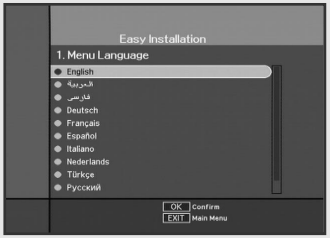
You can change a default audio language in the system setting menu mode.

11. To change the audio output

1. Press the **A.L/R** button on the remote control unit to change the output.
2. Then on-screen menu is displayed on the top right side of the screen.
3. Press the **A.L/R** button repeatedly to change the sound mode.
   (Mono, Left, Right, Stereo)

Easy Installation

Before you can view the television or radio program, you must perform the installation procedure first.
Therefore you will see only "Easy Installation Menu" at first when you plug in your system.
The Easy Installation gives you the convenience of selecting various languages, adjusting the time and channel search.



1. Automatic Installation by "Easy Installation"

The Installation Wizard is user friendly to assure easy set-up of the receiver by the new user.

2. System Connection

Connect STB to all peripheral devices such as TV, Audio, Video etc..

3. Power On

Turn on the STB power and other devices.

4. Power Off

When you press the STAND BY button again.
The STB will display "OFF".

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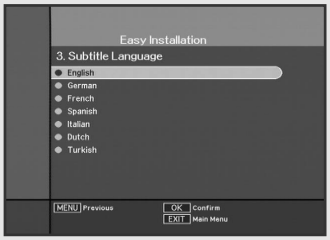
Easy Installation

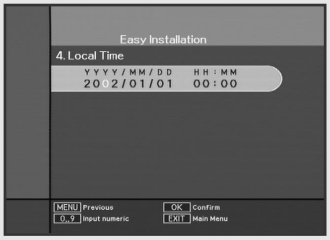


Language

The first option is “Language Select” to select the desired language of the Menu, Audio, or Subtitle.

Place the cursor on the sub menu by pressing the keys and press the **OK**( ) button to change language.

The Language of Menu, Audio, or Subtitle will be changed to the selected language.



Local Time

You can set your local time according to your location.

To set the local time, press **NUMERIC** buttons.

Channel Search

You can search the channels according to the DiSEqC mode.

Press **OK**( ) button. Channel Search screen will appear.

ENGLISH

Menu Guide

Main Menu

Press the MENU button on the remote control unit.
You will see the "Main Menu" on the screen.

1. You can move into the desired submenu using **UP/DOWN**( ) buttons.
2. You should enter the PIN code in order to move into the corresponding submenu in case of "**Edit Channel List** or "**System Setting**".
3. Press **OK**( ) button to confirm your selection.
4. Press the **MENU** button to return to previous menu.
   Or press the **EXIT** button to quit the Menu system completely.

Main Menu shows the following information.

Channel Search	**:** DiSEqC : Set Mode(None, Switch, Motor, USALS).
Channel List	**:** Shows Favorite 1~8, Lock, all channels, sort, CAS sort, Satellite sort, Network sort, Genre sort.
Edit Channel List	**:** Edits Favorite 1~8, Lock, Skip, Delete, Move, Genre.
Program Guide	**:** Shows Now, Next, Weekly Program guide.
System Setting	**:** Set Menu Language, Audio Language, Subtitle Language, SCART Output, Screen Type, Banner Time, RF Mode, RF Channel, Local Time, Menu Transparency, Change PIN Code, Parental Lock, Receiver Lock, Menu Lock, Auto Power, Factory Reset and System Information.
Utility (Option)	**:** Demonstration, Calendar, Zoom, Calculator.
CA System(Option)	**:** Shows scrambled channels by using common interface modules.

ENGLISH

Channel Search

Channel Search / Installation (None, DiSEqC Switch)

1. **Satellite** : Select the satellite list you want using **UP/DOWN**( ) buttons on the satellite list.

- Edit, Add, or Delete

- Press **YELLOW** button to edit, add, or delete satellite list. Pop Up menu will appear.
- Select mode using **LEFT/RIGHT**(/) buttons.
- Place the cursor on satellite field and press **OK**( ) button. The keypad will be displayed so that you can edit or add satellite name you want.
- Input degree you want using **NUMERIC** buttons or **LEFT/RIGHT**(/) buttons. And press **OK**( ) button to save.
- To delete satellite list on the list, press **YELLOW** button to select delete mode in pop up menu. And press **OK**( ) button.

2. **TP list**

- When the **GREEN** button is pressed, it can be toggled Satellite list and TP list.
- Press **YELLOW** button to edit, add or delete the TP list. Pop up menu will appear.
- Input Mode, Frequency, Symbol Rate, Polarity, and FEC, and Press **OK**( ) button to save.

ENGLISH

Channel Search

- Scan

Press the **RED** button on the TP list.
Pop up window will be displayed on the screen.

- ♦ **Frequency :** Input a proper Frequency using **NUMERIC** buttons.
- ♦ **Symbol Rate :** Input a proper Symbol Rate using **NUMERIC** buttons.
- ♦ **Polarity :** Use the **LEFT/RIGHT**(◀/▶) buttons to select the Polarisation of the transponder.(Horizontal, Vertical)
- ♦ **FEC :** Use the **LEFT/RIGHT**(◀/▶) buttons to select the FEC of the transponder.
- ♦ Press **YELLOW** button to edit, add or delete the TP list. Pop up menu will appear.
- ♦ Input Mode, Frequency, Symbol Rate, Polarity, and FEC, and Press **OK**(OK) button to save.
- ♦ You can select the value of Auto, 1/2, 2/3, 3/4, 5/6, and 7/8.
- ♦ **Network :** You can select Yes or No. When you select '**Yes**', you can find more transponders using the home network.
- ♦ **Video PID/Audio PID/PCR PID :**
  You can set PID to search for services.
  Use the **LEFT/RIGHT**(◀/▶) buttons or **NUMERIC** buttons to input the value.
  Press **OK**(OK) button to start Scanning.

ENGLISH

Channel Search

3. **C/KU Switch** : You can select C/KU band by selection of switch type.

4. **LNB Freq.** : Select the proper LNB frequency referring to your LNB using **OK**( ) and **UP/DOWN**( ) buttons.

5. **C-LNB Freq.** : When selecting the C/KU Switch is selected as "**None**", the C-LNB Freq will be dimmed automatically. Press **OK**( ) button, and then the C-LNB Freq. list will be displayed. You can also input the freq. you want. After inputting freq. using numeric buttons, press **OK**( ) button.

6. **LNB Power** : Select the LNB Power On or OFF.

7. **22KHz** : Depending on the user's antenna switch box or LNB. You can supply either 22KHz by setting "**ON**" or not by setting "**OFF**".

8. **0V/12V** : Depending on the user's antenna switch box. You can choose either 0V/12V.

9. **Tone Burst** : Depending on the user's antenna switch box. ("off", "SAT A" or "SAT B")

10. **DiSEqC** : You can select and use appropriate port for your DiSEqC switch box. Press **OK**( ) button to select DiSEqC List. (None, DiSEqC A, DiSEqC B, DiSEqC C, DiSEqC D)

- After selecting all that is necessary, press **RED** button to scan the satellite list. Pop up widow will be displayed.
- Select ON or OFF according to your Network.
- Select All or FTA Search Type.
- Press **OK**( ) button and searching will start.

ENGLISH

Channel Search

Channel Search / Installation (DiSEqC 1,2)

1. **Satellite** : Select the satellite list you want using **UP/DOWN**( ) buttons on the satellite list.

- Edit, Add, or Delete

- Press **YELLOW** button to edit, add, or delete satellite list. Pop Up menu will appear.
- Select mode using **LEFT/RIGHT**(/) buttons.
- Place the cursor on satellite field and press **OK**( ) button. The keypad will be displayed so that you can edit or add satellite name you want.
- Input degree you want using **NUMERIC** buttons or **LEFT/RIGHT**(/) buttons. And press **OK**( ) button to save.
- To delete satellite list on the list, press **YELLOW** button to select delete mode in pop up menu. And press **OK**( ) button.

2. **TP list**

- When the Green button is pressed, it can be toggled Satellite list and TP list.
- Press **YELLOW** button to edit, add or delete the TP list. Pop up menu will appear.
- Input Mode, Frequency, Symbol Rate, Polarity, and FEC, and Press **OK**( ) button to save.

ENGLISH

Channel Search

- Scan

Press the **RED** button on the TP list.
Pop up window will be displayed on the screen.

- ♦ **Frequency :** Input a proper Frequency using **NUMERIC** buttons.
- ♦ **Symbol Rate :** Input a proper Symbol Rate using **NUMERIC** buttons.
- ♦ **Polarity :** Use the **LEFT/RIGHT**(◀/▶) buttons to select the Polarisation of the transponder.(Horizontal, Vertical)
- ♦ **FEC :** Use the **LEFT/RIGHT**(◀/▶) buttons to select the FEC of the transponder.
- ♦ You can select the value of Auto, 1/2, 2/3, 3/4, 5/6, and 7/8.
- ♦ **Network :** You can select Yes or No. When you select '**Yes**' , you can find more transponders using the home network.
- ♦ **Video PID/Audio PID/PCR PID :**
  You can set PID to search for services.
  Use the **LEFT/RIGHT**(◀/▶) buttons or **NUMERIC** buttons to input the value.
  Press **OK**(OK) button to start Scanning.

3. **Position :** After selecting a satellite, please select position number. To change value, press **OK**(OK) button. The position list will be displayed.
4. **LNB Freq. :** Select the proper LNB frequency referring to your LNB using **OK**(OK) and **UP/DOWN**(▲▼) buttons.
5. **LNB Power :** Select the LNB Power On or OFF.

ENGLISH

Channel Search

6. **22KHz** **:** Depending on the user's antenna switch box or LNB. You can supply either 22KHz by setting "**ON**" or not by setting "**OFF**". When selecting the U-LNB 1 and U-LNB 2, the 22KHz will be dimmed.

7. **0V/12V** : Depending on the user's antenna switch box. You can choose either 0V/12V.

8. **Tone Burst** : Depending on the user's antenna switch box. ("off", "SAT A" or "SAT B")

9. Press the **BLUE** button to set Drive(Fine Drive or Normal Drive) to run the motor.

- **Fine Drive/Normal Drive :** To move the motor, press **LEFT/RIGHT**(◀/▶) button.
- **Go to zero :** To move the zero position, press **OK(OK)** button.
- **Store to location :** To store the current position, press **OK(OK)** button.
- **East Limit :** To set the east limit by current position, press **OK(OK)** button.
- **West Limit :** To set the west limit by current position, press **OK(OK)** button.
- **Clear Limit :** To clear the stored limit value, press **OK(OK)** button.

- After selecting all that is necessary, press **RED** button to scan the satellite list. Pop up widow will be displayed.
- Select ON or OFF according to your Network.
- Select All or FTA Search Type.
- Press **OK**(OK) button and searching will start.

ENGLISH

Channel Search

Channel Search / Installation (USALS)

1. **Satellite** : Select the satellite list you want using **UP/DOWN**( ) buttons on the satellite list.

- Edit, Add, or Delete

- Press **YELLOW** button to edit, add, or delete satellite list. Pop Up menu will appear.
- Select mode using **LEFT/RIGHT**(/) buttons.
- Place the cursor on satellite field and press **OK**( ) button. The keypad will be displayed so that you can edit or add satellite name you want.
- Input degree you want using **NUMERIC** buttons or **LEFT/RIGHT**(/) buttons. And press **OK**( ) button to save.
- To delete satellite list on the list, press **YELLOW** button to select delete mode in pop up menu. And press **OK**( ) button.

2. **TP list**

- When the **GREEN** button is pressed, it can be toggled Satellite list and TP list.
- Press **YELLOW** button to edit, add or delete the TP list. Pop up menu will appear.
- Input Mode, Frequency, Symbol Rate, Polarity, and FEC, and Press **OK**( ) button to save.

ENGLISH

Channel Search

- Scan

Press the **RED** button on the TP list.
Pop up window will be displayed on the screen.

♦ **Frequency :** Input a proper Frequency using **NUMERIC** buttons.

♦ **Symbol Rate :** Input a proper Symbol Rate using **NUMERIC** buttons.

♦ **Polarity :** Use the **LEFT/RIGHT**(◀/▶) buttons to select the Polarisation of the transponder.(Horizontal, Vertical)

♦ **FEC :** Use the **LEFT/RIGHT**(◀/▶) buttons to select the FEC of the transponder.

♦ You can select the value of Auto, 1/2, 2/3, 3/4, 5/6, and 7/8.

♦ **Network :** You can select Yes or No. When you select '**Yes**' , you can find more transponders using the home network.

♦ **Video PID/Audio PID/PCR PID :**
You can set PID to search for services.
Use the **LEFT/RIGHT**(◀/▶) buttons or **NUMERIC** buttons to input the value.
Press **OK**(OK) button to start Scanning.

3. **Degree :** Press the **NUMERIC** buttons and enter te degree.

4. **LNB Freq. :** Select the proper LNB frequency referring to your LNB using **OK**(OK) and **UP/DOWN**(▲/▼) buttons.

5. **LNB Power :** Select the LNB Power On or OFF.

6. **22KHz:** Depending on the user's antenna switch box or LNB. You can supply either 22KHz by setting "**ON**" or not by setting "**OFF**".
When selecting the U-LNB 1 and U-LNB 2, the 22KHz will be dimmed.

ENGLISH

Channel Search

7. **0V/12V** : Depending on the user's antenna switch box. You can choose either 0V/12V.

8. **Tone Burst** : Depending on the user's antenna switch box. ("off", "SAT A" or "SAT B")

9. **Longitude** : Press the **NUMERIC** buttons and enter the Longitude. When the **OK**(OK) button is pressed. It can be toggled East/West.

10. **Latitude** : Press the **NUMERIC** button and enter the Latitude. When the **OK**(OK) button is pressed, it can be toggled North/South.

11. Press the **BLUE** button to set Drive(Fine Drive or Normal Drive) to run the motor.

- **Fine Drive/Normal Drive :** To move the motor, press **LEFT/RIGHT**(◀ / ▶) button.
- **Go to zero :** To move the zero position, press **OK(OK)** button.
- **East Limit :** To set the east limit by current position, press **OK(OK)** button.
- **West Limit :** To set the west limit by current position, press **OK(OK)** button.
- **Clear Limit :** To clear the stored limit value, press **OK(OK)** button.

Note: After the Degree, Longitude and Latitude is enterted accurately. the DiSEqC Motor will automatically move to the satellite's position.

- After selecting all that is necessary, press **RED** button to scan the satellite list. Pop up widow will be displayed.
- Select ON or OFF according to your Network.
- Select All or FTA Search Type.
- Press **OK**(OK) button and searching will start.

ENGLISH

Channel List

This menu helps you to easily select the channel that you want to watch. You can see the channel list when you had searched before. To use this menu, you should set channel group you want in the channel control menu.

1. Select "**Channel List**" in the main menu with **UP/DOWN**( ) and press **OK**(OK).
2. Using **UP/DOWN**( ) button, you can choose your channel with small-sized video view on right side.

Note: To get the full-sized video view, press **EXIT** button.

3. To see the available channel list, use the **SUB-T(RED)** button on the remote control unit repeatedly.

   The channel list moves in the following sequence :

   ALL -> Favorite from 1 to 8 -> Lock.

4. Press the **TV/RADIO** button to toggle between TV channel list and Radio channel list.
5. To get the channel sort list, press the **GREEN** button. Pop up window will be displayed on the screen.
6. Select the sort list you want with **UP/DOWN**( ) buttons and then press **OK**(OK) to get it.

Nomal : ALL, Lock, A~Z, Z~A
Sattellite : ALL, the sattellite which you have searched.
CAS : ALL, FTA / Etc...
Network : ALL, network which you have searched.
Genre : ALL, Movie, News and Factual, Entertainment, Sports, Factual. Education, Lifestyle, Drama, Music, Arts, Current Affairs, Special, Comedy, Documentary.

ENGLISH

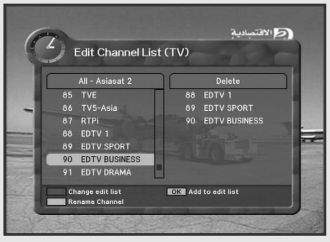
Edit Channel List

From these menus,
You can create favorite lists, lock, skip, delete, or move channel.

1. Select "**Edit Channel List**" in the main menu with **UP/DOWN**( ) buttons and press **OK**( ) button.
2. At the request window, Input PIN code.
   If you have not entered your own PIN code, then the PIN code **0000** applies, which was set at the factory.
3. Press the **SUB-T (RED)** button. The edit list will be displayed on the screen.
   Select the sub menu you want in the list and press **OK** button.
   The selected sub menu will be displayed at the right folder.
4. Among the all channel list, the selected channel can be moved to the right folder of Favorite 1~8, Lock, Delete, Skip, Move.
   Press **OK** button to add from edit list at right folder.
5. To remove the channel list from edit list at right folder, press **OK**( ) button.
   The edited list will be removed.
6. To rename the channel, press **YELLOW** button.
7. To confirm the channel list, press the **MENU** button or **EXIT** button.
   The request window will be displayed on the screen,
   Press **OK**( ) button to save or **EXIT** button to exit this menu.

ENGLISH

Edit Channel List



1. Favorite 1 ~ 8 (Option)

1. You can edit favorite TV and Radio list.
   This enables you to create the 8 favorite TV and Radio lists.
2. Select the channel you want to edit favorite list and press **OK**( ) button.

Note: To rename the Favorite channel, press **INFO(BLUE)** button.

2. Lock

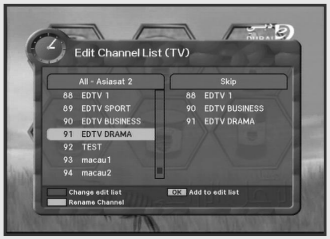
1. From here you can lock channels in any of the list in order to prevent e.g. your children from watching.
2. Select the channel you want to lock and press **OK**( ) button.
3. Repeat the procedure for each channel you want to lock.
   When you lock a channel in any list, the channel will be locked automatically in all other lists.

3. Delete

1. You can delete TV or Radio channel from the current list.
2. Select the channel you want to delete and press **OK**( ) button.

ENGLISH

Edit Channel List



4. Skip

1. You can skip TV or Radio channel from the current list.
2. Select the channel you want to skip and press **OK**( ) button.
3. To recover the skipped channel, press the **OK**( ) button from edit list.

5. Move

1. You can change the position of the channel you want on the TV/Radio/All channel lists.
2. Select the channel you want to move to desired channel and press the **OK**( ) button.
3. And press the **INFO(BLUE)** button to change the position of the channel you want.
4. Using **UP/DOWN**( ) buttons, select the channel you want to move and press **OK**( ) button.
5. The position of the channel will be moved.

6. Genre

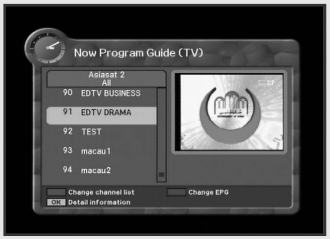
1. You can edit TV and Radio list of the genre which is various.

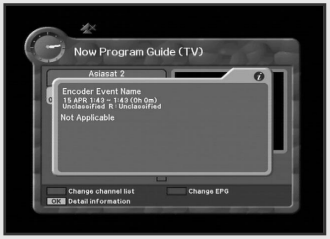
(Movie, News and Factual, Entertainment, Sport, Children°Øs, Factual, Education, Lifestyle, Drama, Music, Arts, Current Affairs, Special, Comedy, Documentary.)

2. Select the channel you want to edit genre list and press OK( ) button.

Menu Guide

Program Guide





The program guide supplies information such as program listings and ending times for all available programs.

1. Select "**Program Guide**" in the main menu with **UP/DOWN**( ) buttons and press **OK**(OK) button. In the viewing program, when you press the **EPG** button, you can get this view.

Note: The Program Guide information may not be supplied by service providers.

1. Now/Next Program Guide

Shows the information of Present/Following program on different channels. To watch the programs you go through the display window :

1. Select a program with **UP/DOWN**( ) buttons, you can get the list at right-side view.
2. Use the **SUB-T(RED)** button to change the channel list.
3. After selecting the program you want, press **OK**(OK) button. You can see the detailed information.
4. If you want to change program guide, press **INFO(BLUE)** button.

2. Weekly Program Guide

Shows the information of program that will be played for a week.

1. When you press **INFO(BLUE)** button, you can alternatively select Now, Next or Weekly EPG.
2. To see more information about the program you want on the weekly EPG, move the highlighted channel by pressing **LEFT/RIGHT**(/), **UP/DOWN**( ) buttons and then press **OK**(OK) button.

3. EPG Inforamation

1. To view the Program Guide, press the **EPG** button on the remote control unit. The EPG information will be displayed on the bottom of the screen.
2. Each press of **UP/DOWN**( ) buttons will change the displayed EPG information by one hour.
3. Each press of **LEFT/RIGHT**(/) buttons will change the displayed EPG information by one day.
4. If there is available EPG information, it will be displayed on the EPG information bar.
5. Press the EPG button again, and the Program Guide menu will be displayed.

ENGLISH

System Setting

You will be asked to enter your PIN code before you can enter this menu. The PIN code preset to 0000 from the factory. The code can be changed from the "Change PIN Code" menu. Refer to page 37.

If you want to customize the system to suit you better, you can specify some settings from the submenus in the "System Setting" menu.

1. Select "**System Setting**" in the main menu with **UP/DOWN**( ) buttons and press **OK**( ) button.
2. Select sub menu you want in System Setting with **UP/DOWN**( ) buttons. The sub menu will be shown at the right side of the screen.
3. Using button to move the cursor on sub menu or return to "**Setup List**" using button.

1. Menu Language

Here you may select in which language the menus will be shown.

1. Use the **UP/DOWN**( ) buttons to move to the language you want and then press **OK**( ) button.
   You can choose the language from a selection of **English**, **Español**, **Suomi**, **Norsk**, **Svenska**, **Deutsch, Français**, **Türkçe**, **Italiano, Slovenski,** Українська, **Русский**, **cesky**, Latviešu, عربية, فارسى, **Dansk**, Български, Română, **Srbskl**, **Nederlands**, **Magyar**, **shqip**. **(Option)**
   The selected menu language will be applied on whole menu.

ENGLISH

System Setting

2. Audio Language

In this menu You can change default language for audio when changing services.

1. Use the **UP/DOWN**( ) buttons to move to language you want and then press **OK**(OK) button.
   You can choose the language from a selection of **English**, **Spanish**, **Finnish**, **Norwegian**, **Swedish**, **German**, **French**, **Turkish**, **Italian**, **Slovenian**, **Ukrainian**, **Russian**, **Czech**, **Latvian**, **Arabic**, **Farsi**, **Danish**, **Bulgarian**, **Romanian**, **Serbian**, **Dutch**, **Hungarian**, **Albanian**.**(Option)**

3. Subtitle Language

In this menu You can change default language for subtitle when changing services.

1. Use the **UP/DOWN**( ) buttons to move to language you want and then press **OK**(OK) button.
   You can choose the language from a selection of **English**, **Spanish**, **Finnish**, **Norwegian**, **Swedish**, **German**, **French**, **Turkish**, **Italian**, **Slovenian**, **Ukrainian**, **Russian**, **Czech**, **Latvian**, **Arabic**, **Farsi**, **Danish**, **Bulgarian**, **Romanian**, **Serbian**, **Dutch**, **Hungarian**, **Albanian**.**(Option)**

Note: If you cancel the subtitle function, select the off. (Option)

4. SCART Output (option)

If your SCART supports RGB control, select RGB. Otherwise select CVBS.

ENGLISH

System Setting

5. Screen Type

If you have a TV set with the 4:3 picture format and the transmission is in 16:9, you can select 4:3 letterbox, 4:3 full screen and 16:9 full screen.

1. Select the aspect ratio of **TV** which is connected to **STB** and then press **OK**( ) button.

Note 1: Fullscreen will fill up the screen but cut off some information on the left and right sides.

2: Letterbox will give a complete picture, but leave black areas at the top and bottom.

3: For easy selection of Screen Type, press the **P.SIZE** button on your remote control.

6. Banner Time

When you switch channels, an information banner will be shown for a few seconds.
You can select for how long the banner will be shown.

1. Select the banner time you want and then press **OK**( ) button.
2. Each selectable time items has meaning of the interval time during a channel banner stays on changed channel screens.
   The time ranges 1, 3, 6, 9 12 and 15 seconds.

7. RF Mode (option)

You can select the RF Mode. If you get picture but no sound, the RF Mode selecting might be wrong.
*Select an RF Mode and then press **OK**( ) button.*

RF Mode : PAL BG, PAL I, PAL DK, SECAM L, NTSC M

System Setting

8. RF Channel (option)

Select this alternative if you have to change the RF channel.

*Select an UHF Channel you want with **UP/DOWN**( ) buttons.*
The RF Channel ranges from 21 to 69.

9. Local Time

You can set your local time according to your location.

1. To set year, month and date, press **UP/DOWN**( ) buttons.
   The Calendar pop up window will be displayed.
   Select year using **SUB-T(RED)** and **GREEN** button.
   Select month using **YELLOW** and **INFO(BLUE)** button.
   Select date using **UP/DOWN**( ) or **LEFT/RIGHT**(/) buttons.
2. Adjust hour and minute with **UP/DOWN**( ) buttons and move the field with **LEFT/RIGHT**(/) buttons.
3. When the **OK**(OK) button is pressed, the selected time applies.

10. Menu Transparency

From 20 to 63 will give the variable transparency on Video and OSD screen.

*To set menu transparency, press **UP/DOWN**( ) buttons.*
The transparency will be applied on the screen.

ENGLISH

System Setting

11. Change PIN Code

From here you can change the PIN code from the standard 0000. <u>DO NOT FORGET IT!</u> Without it, you are not able to access to any of the functions where the code is required.

You can change password for Parental Lock and Receiver Lock simultaneously.

1. Input the current PIN code using numeric button on the remote control.
2. In the highlighted new PIN code, input a new PIN code.
3. To verify the new PIN code, re-enter a new PIN code in the highlighted confirm PIN code.
   If the PIN code is correct, the message "**Success**" will be displayed on the display window.

<u>Note:</u> If you forget the PIN code, press the RGYB(Color) button in sequence.
(i.e. Red -> Green -> Yellow -> Blue button)
The PIN code will be changed to '0000'

12. Parental Lock

When you change "Parental Lock" to "On" or "Off", service channel can get or not from that set values. If you select "On", you may need PIN code every time you select the lock channel program as you set in the channel control.
If you select "Off", you can see all channels without PIN code.

System Setting

13. Receiver Lock

If you select "On", you will have to enter the PIN code every time you start the receiver from standby.

14. Menu Lock

If you select "On", you will have to enter the PIN code every time when you enter the Channel Search Menu and Channel List Menu

System Setting

15. Auto Power (option)

1. If the Auto Power is set to On and power is off, the Set turns on automatically and turns into the channel mode which you were watching before power break-down.
2. If the Auto Power is set to Off and power is off, the Set turns into the standby mode.

16. Factory Reset

Use this option only if you have to start the complete installation procedure from scratch. If you continue from here, all your previous settings and all channels will be cleared ! The default data will be loaded.

*If you press **OK**( ) button, it asks for your confirmation.*
*If you want to reset, press **OK**( ) button, or press **EXIT** button to exit this menu.*

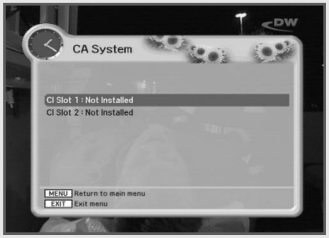
17. System Information

Displays the system information :
MODEL name, Last Update, S/W, H/W, Loader version, C.A

ENGLISH

Menu Guide

CA System (Option)



The menus are provided by the CA module and its smart card.

Your receiver is equipped with two slots of Common Interface(CI), accepting both Type 1 and Type 2 PCMCIA modules(see diagram below.). Plug in the appropriate CI module together with a valid smart card. You will then have access to the respective scrambled and Pay-Per-View services.

Insert the smart card into the CI module, and the CI module into the slot behind the flap on the front panel.

The CI and smart card modules determine the programs that can be de-scrambled. This receiver supports two CI slots so you can plug in two different modules, automatically provide access to both services.

Each smart card contains your subscription details.
You can view your entitlement via the COMMON INTERFACE menu by using the **MENU** button as below.

1. Press **MENU** button and select Common Interface then Slot1 and Slot2 will be showed up on the screen and the menu will be appeared.
   If you use Slot1 for Irdeto, you will see "**Irdeto**" on the screen.
   Also if you use Slot2 for Viaccess, you will see "**Viaccess**" on the screen.
   Select the item and then you will see information for card.
   Press **EXIT** button if you wish to exit from this menu.
2. If You inserted the smart card with CAM into the receiver, and switch on the receiver. Then you will see "**CAM Initializing icon**" on the top screen.
3. If you do not insert the smart card, you will see the message "**Insert the valid smart card".**
   If you insert the smart card into the CI module then you can watch your selected channel.

Utility (option)

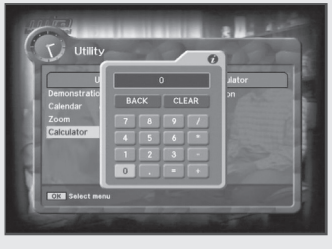
1. Demonstration

Select "**Demonstration**" in the Utility menu with **UP/DOWN**( ) buttons and press **OK**(OK) button, you can see the Automatic Operation Function.
Press the **EXIT** button to quit the Automatic Operation Function completely.

2. Calendar

Select "**Calendar**" in the Utility menu with **UP/DOWN**( ) buttons and press **OK**(OK) button, you can see the Calendar.

Utility (option)



3. Zoom

Select “Zoom” in the Utility menu with UP/DOWN( ) buttons and press OK(OK) button, the white frame will appear.

- ◆ Select the size and position of video you want to expanded with RED/GREEN, LEFT/ RIGHT buttons and press OK(OK) button, you can see the expanded video.
- ◆ Press EXIT button in the video only, you can see the white frame.
- ◆ Press EXIT button to quite the expanded video completely.
- ◆ RED : Expand the size
- ◆ GREEN : Reduce the size

4. Calculator

Select “Calculator” in the Utility menu with UP/DOWN( ) buttons and press OK(OK) button, you can see the Calculator.

ENGLISH

Troubleshooting

Problem	Solution
No display LED on the front panel. ***No power supply***	Power cord plug in correctly.
No Picture	Ensure that the STB is switched on. Check connection and correct. Check channel and video output and correct
Poor picture quality	Check the signal level, if this is low then try adjusting the alignment of your dish.
No Sound	Check the volume level of the TV and STB. Check the mute status of the TV and STB. Check the connection of audio cord.
Remote Control does not operate	Point remote control directly towards the receiver. Check and replace batteries. Check that nothing blocks the front panel.
Service is not running or scrambled.	Check the whether the Common Interface module and smart card is correctly inserted. Check that the smart card is appropriate for the selected service.
You have forgotten your secret PIN code.	Refer to Change PIN code(Page 37) of this owner's manual.

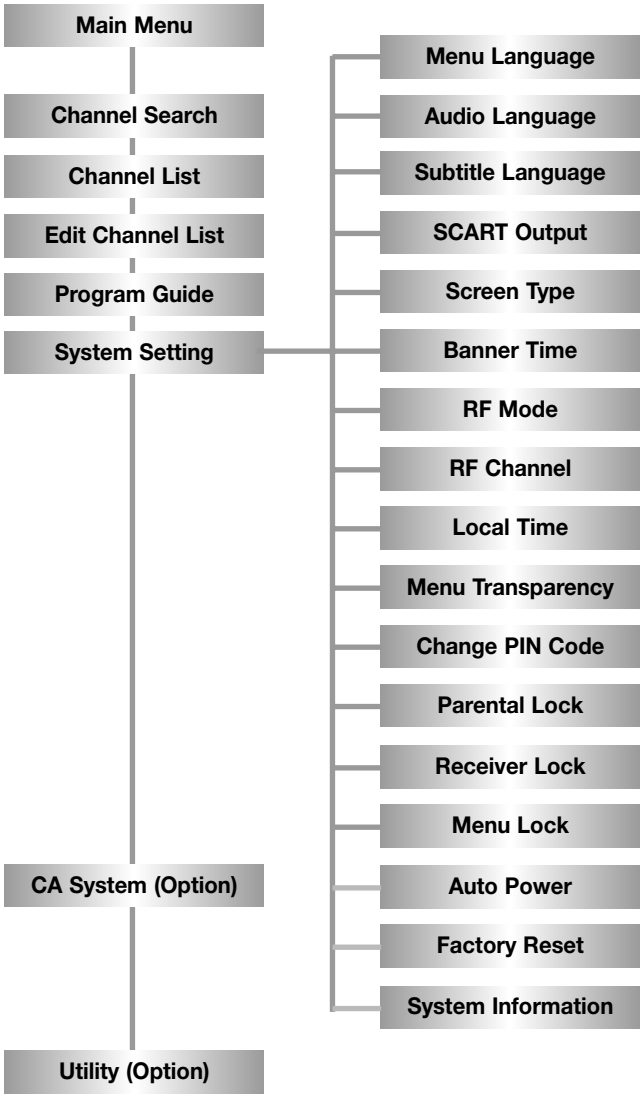
Technical Specifications

Tuner	
FEC Modes Rate	1/2, 2/3, 3/4, 5/6, 7/8
Input Connector	F type female (75 Ohm)
Frequency Range	950MHz ~ 2150MHz
Symbol Rate	2 ~ 45 Mbaud
Demodulation	QPSK
RF Modulator	
PLL type	CH 21-69 for the modulation
TV Standard	PAL B/G, I, SECAM L, NTSC M selectable
RF Connector	75 Ohms, 169-2, Male/Female
Frequency Range	UHF: 470 ~ 860MHz
MPEG TS A/V Decoder	
Video Resolution	720 × 576
Input Bit Rate	Max. 90 Mbit/s
Transport Stream	MPEG-2 ISO/IEC 13818-1
Audio Decoding	MPEG/Musicam Layer 1 & 2
Audio Mode	Single / Dual Channel

Technical Specifications

A/V & Data Input/Output	
Video	RCA/Cinch, Video Output(CVBS)/SCART(CVBS, RGB) RCA/Cinch Volume & Mute Control
Audio	Resolution: 20 bits DAC, Max 2Vrms
RS-232C	Transfer rate 115Kbps, 9 PIN D-Sub Type
System Resources	
Flash Memory	1Mbyte, 2Mbytes (Option)
SDRAM	8Mbytes, 16Mbytes (Option)
Main CPU MPEG Chip	STi 5518
Power Supply	
Input Voltage	AC 90 to 260V, 50/60Hz
Power Consumption	Max. 25W
Protection	Separate Internal Fuse
Type	SMPS
Physical Specification	
Size(W × H × D)	180 × 45 × 250(mm)
Net Weight	1.2kg
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Option Function	
Common Interface	2 Slots of DVB -CI (Optional Detachable)
Embedded CAS	CONAX, NAGRAVISION, NDS, IREDETO, CRYPTOWORKS
SW Upload	RS232C (Optional Via OTA)

Menu Map


Main Menu
Channel Search
Channel List
Edit Channel List
Program Guide
System Setting
CA System (Option)
Utility (Option)
Menu Language
Audio Language
Subtitle Language
SCART Output
Screen Type
Banner Time
RF Mode
RF Channel
Local Time
Menu Transparency
Change PIN Code
Parental Lock
Receiver Lock
Menu Lock
Auto Power
Factory Reset
System Information

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